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File: DWPI

Sep 9, 1987

DERWENT-ACC-NO: 1987-252057

DERWENT-WEEK: 198736

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TITLE: Pressure sensitive recording material - with microcapsules contg. electron melting solid and solvent

INVENTOR: IGARASHI, Y; IGARI, Y ; OKADA, Y

PATENT-ASSIGNEE:

ASSIGNEE

CODE

KUREHA KAGAKU KOGYO KK

KURE

PRIORITY-DATA: 1986JP-0045637 (March 3, 1986)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
GB 2187486 A	September 9, 1987	N/A	009	N/A
AU 8769625 A	October 1, 1987	N/A	000	N/A
DE 3706491 A	September 10, 1987	N/A	000	N/A
DE 3706491 C	November 16, 1989	N/A	000	N/A
FR 2595070 A	September 4, 1987	N/A	000	N/A
GB 2187486 B	May 23, 1990	N/A	000	N/A
JP 62202783 A	September 7, 1987	N/A	000	N/A
KR 9002106 B	April 2, 1990	N/A	000	N/A
US 4783438 A	November 8, 1988	N/A	007	N/A

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
GB 2187486A	March 3, 1987	1987GB-0004969	N/A
DE 3706491A	February 27, 1987	1987DE-3706491	N/A
FR 2595070A	March 3, 1987	1987FR-0002907	N/A
JP62202783A	March 3, 1986	1986JP-0045637	N/A
US 4783438A	February 24, 1987	1987US-0017585	N/A

INT-CL (IPC): B41M 5/22; C09D 3/38; D21H 1/10; D21H 5/00; D21H 13/00

ABSTRACTED-PUB-NO: DE 3706491C

BASIC-ABSTRACT:

A recording paper which is pressure-sensitive in a predetermined area(s) has a paper sheet support which has been coated in the area(s) with a compsn. contg. (1) a thermally melting material contg. an organic solvent and (2) microcapsules contg. a soln. of an electron donating dye as the core material. The solvent has a B.pt. of 250350 deg.C and at least 25% of its C atoms are in aromatic rings. The wt. ratio of organic solvent to thermally melting solid is (1) is 0.1252.5 and the wt. ratio of thermally melting solid to microcapsules is 0.51.5.

The m.pt. of the thermally melting solid is pref. at least 50deg.C, and is pref. Japan tallow, and/or carnauba, paraffin, crystalline, montan, polyethylene and/or oxidised wax.

USE/ADVANTAGE - The material is used for business forms and computer recording paper. The solvent accelerates colour development and prevents the thermally melting solid hindering development. The material uses inexpensive materials and does not cause stains in normal use.

ABSTRACTED-PUB-NO:

GB 2187486A

EQUIVALENT-ABSTRACTS:

Partially pressure sensitive recording paper comprises a paper sheet on the surface of which is partially applied a dispersion of microcapsules contg., as core material soln. of an electron-releasing dye, in a heat-melting solid cpd. (I). Cpd. (I) contains an organic solvent having a mean b. pt. of 250 to 350 deg.C and a ratio of aromatic ring C-atoms, to total C-atoms of not less than 25%. The wt. ratio of organic solvent to cpd. (I) is 0.125 to 2.5.

The improvement is that the wt. ratio of cpd. (I) to the microcapsules is 0.5 to 1.5. Pref. the m. pt. of cpd. (I) is not less than 50 deg.C. Pref. cpd. (I) is carnauba wax, Japanese tallow, paraffin wax, crystal wax, montan wax, polyethylene wax, oxidized wax, or mixts. of these.

ADVANTAGE - New paper has excellent colour development property, does not cause environmental contamination, is free from flecks and is cheaply produced by a simple process. (9pp)s

GB 2187486B

A partially pressure-sensitive recording paper comprising a sheet of paper on part of a surface of which has been applied a composition comprising a thermally melting substance containing an organic solvent and comprising also microcapsules containing a solution of an electron-donating dyestuff as the core material, wherein the said organic solvent has a mean boiling point of from 250 to 350 deg.C and at least 25% of its carbon atoms are aromatic ring carbons, the weight ratio of the organic solvent to the thermally melting solid substance is from 0.125:1 to 2.5:1 and the weight ratio of the thermally melting solid substance to the microcapsules is from 0.5:1 to 1.5:1.

US 4783438A

A partially press sensitive recording paper consists of a sheet coated partially with A) a mixt. of a) a heat fusible material and b) an organic solvent boiling at 250-350 deg. C and of such a compsn., that the No of aromatic C relative to total C in the solvent is at least 25%, contg. dispersed B) microcapsules contg. a soln. of an electron donating dye as core. The wt. ratio Ab):Aa) is 0.125-2.5 and of Aa):B) 0.5-1.5.

Aa) pref. melts at 50 deg. C or above, and is carnauba wax, Japan tallow, paraffin wax, crystalline wax, polyethylene wax or oxidised wax. The microcapsule wall is resistant to the above solvent and not more than 12% water adheres to the capsules. The solvent is e.g. alkyl-benzene, 1-Ph-1-dimethylphenylethane, 1,2-diphenylbutane, amyl naphthalene, phenanthrene.

ADVANTAGE - The paper has an excellent colour developing property, does not cause pollution, is free from staining and can be produced simply and cheaply. (7pp)h

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: PRESSURE SENSITIVE RECORD MATERIAL MICROCAPSULE CONTAIN ELECTRON MELT SOLID SOLVENT

DERWENT-CLASS: A84 G05 P75

CPI-CODES: A12-D05A; A12-W05; G05-D;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0743U; 1514U ; 1740U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0218 0043 0231 0239 0243 1276 1517 1731 1737 2020 2043 2064 2152 2172
2295 2318 2410 2507 2509 2511 2575 2608 3252 2667 2725 2763 2811 2847

Multipunch Codes: 014 039 04- 040 041 046 047 06- 080 09- 139 15& 157 180 185 186
189 231 262 273 293 316 332 341 344 346 355 398 399 442 473 475 477 532 537 54&
541 548 57- 597 600 604 608 62& 641 659 681 688 689 720

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1987-106631

Non-CPI Secondary Accession Numbers: N1987-188611

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File: DWPI

DERWENT-ACC-NO: 1970-72231R
DERWENT-WEEK: 197040
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TITLE: Thin insulating foil

PATENT-ASSIGNEE:

ASSIGNEE	CODE
SIEMENS AG	SIEI

PRIORITY-DATA: 1969DE-1914262 (March 20, 1969)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 1914262 A		N/A	000	N/A

INT-CL (IPC): H01B 0/00

ABSTRACTED-PUB-NO: DE 1914262A
BASIC-ABSTRACT:

The auxiliary carrier film of paper in impregnated with hard wax or polyethylene and then exposed to high-energy radiation (electron beam, protons, neutrons, X-ray or gamma rays). This makes it resistant to solvents and retains the elastomer properties at high temps. The film of resin dissolved in a high-boiling solving is now applied and dried, followed by removal from the carrier film, leaving a film <6 mu thick.

TITLE-TERMS: THIN INSULATE FOIL

DERWENT-CLASS: A17 A35 A85 X12

CPI-CODES: A04-G02E; A12-E07;

Multipunch Codes: 01- 041 046 047 231 246 359 431 473 477 623 627 687 688 720 722
723